Title:

Subtitle

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Abstract

1 Introduction

The National Institute of Standards and Technology Artificial Intelligence (AI) Risk Management Framework (RMF). [25]

- 2 Generative AI Incidents
- 3 Generative AI Governance
- 4 Generative AI Inventories
- 5 Generative AI Risk Tiers
- 6 Generative AI Risk Measurement
- 7 Generative AI Risk Management

Conclusion

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Abbreviations

- AI: Artificial Intelligence
- AI RMF: Artificial Intelligence Risk Management Framework
- GAI: Generative AI
- LLM: Large Language Model
- RMF: Risk Management Framework

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Appendix A: Example Generative AI–Trustworthy Characteristic Crosswalk

A.1: Trustworthy Characteristic to Generative AI Risk Crosswalk

Table A.1: Trustworthy Characteristic to Generative AI Risk Crosswalk.

Accountable and Transparent	Explainable and Interpretable	Fair with Harmful Bias Managed	Privacy Enhanced
-			•
Data Privacy	Human-AI Configuration	Confabulation	Data Privacy
Environmental	Value Chain and Component Integration	Environmental	Human-AI Configuration
Human-AI Configuration		Human-AI Configuration	Information Security
Information Integrity		Intellectual Property	Intellectual Property
Intellectual Property		Obscene, Degrading, and/or Abusive Content	Value Chain and Component Integration
Value Chain and Component Integration		Toxicity, Bias, and Homogenization	
		Value Chain and Component Integration	

Safe	Secure and Resilient	Valid and Reliable
CBRN Information Confabulation Dangerous or Violent Recommendations Data Privacy Environmental Human-AI Configuration Information Integrity Information Security Obscene, Degrading, and/or Abusive Content	Dangerous or Violent Recommendations Data Privacy Human-AI Configuration Information Security Value Chain and Component Integration	Confabulation Human-AI Configuration Information Integrity Information Security Toxicity, Bias, and Homogenization Value Chain and Component Integration

A.2: Generative AI Risk to Trustworthy Characteristic Crosswalk

Table A.2: Generative AI Risk to Trustworthy Characteristic Crosswalk.

CBRN Information	Confabulation	on	Dangerous c	or Violent Re	commendations	Data Privacy	
Safe	Fair with Ha Safe Valid and R	armful Bias Managed	Safe Secure and I	Resilient		Accountable and Tra Privacy Enhanced Safe Secure and Resilient	nsparent
Environmental		Human-AI Configura	ation	Information	n Integrity	Information Secur	rity
Accountable and Tra Fair with Harmful B Safe	_	Accountable and Tra Explainable and Inte Fair with Harmful B Privacy Enhanced Safe Secure and Resilient Valid and Reliable	rpretable	Accountable Safe Valid and I	le and Transparen Reliable	rt Privacy Enhanced Safe Secure and Resiliv Valid and Reliabl	ent
Intellectual Property		Obscene, Degrading,	and/or Abus	ive Content	Toxicity, Bias, a	and Homogenization	Value Chain and Component Integration
Accountable and Tra Fair with Harmful B Privacy Enhanced	_	Fair with Harmful B Safe	ias Managed		Fair with Harmi Valid and Relial	ful Bias Managed ble	Accountable and Transparent Explainable and Interpretable Fair with Harmful Bias Managed Privacy Enhanced Safe Secure and Resilient Valid and Reliable

Appendix B: Example Risk-tiering Materials for Generative AI

B.1: Example Adverse Impacts

Table B.1: Example adverse impacts, adapted from NIST 800-30r1 Table H-2 [24].

Level	Description
Harm to Operations	 Inability to perform current missions/business functions. In a sufficiently timely manner. With sufficient confidence and/or correctness. Within planned resource constraints. Inability, or limited ability, to perform missions/business functions in the future. Inability to restore missions/business functions. In a sufficiently timely manner. With sufficient confidence and/or correctness. Within planned resource constraints. Harms (e.g., financial costs, sanctions) due to noncompliance. With applicable laws or regulations. With contractual requirements or other requirements in other binding agreements (e.g., liability). Direct financial costs. Reputational harms. Damage to trust relationships. Damage to image or reputation (and hence future or potential trust relationships).
Harm to Assets	 Damage to or loss of physical facilities. Damage to or loss of information systems or networks. Damage to or loss of information technology or equipment. Damage to or loss of component parts or supplies. Damage to or of loss of information assets. Loss of intellectual property.
Harm to Individuals	 Injury or loss of life. Physical or psychological mistreatment. Identity theft. Loss of personally identifiable information. Damage to image or reputation. Infringement of intellectual property rights. Financial harm or loss of income.
Harm to Other Organizations	 Harms (e.g., financial costs, sanctions) due to noncompliance. With applicable laws or regulations. With contractual requirements or other requirements in other binding agreements (e.g., liability). Direct financial costs. Reputational harms. Damage to trust relationships. Damage to image or reputation (and hence future or potential trust relationships).
Harm to the Nation	 Damage to or incapacitation of critical infrastructure. Loss of government continuity of operations. Reputational harms. Damage to trust relationships with other governments or with nongovernmental entities. Damage to national reputation (and hence future or potential trust relationships). Damage to current or future ability to achieve national objectives. Harm to national security. Large-scale economic or workforce displacement.

B.2: Example Impact Descriptions

Table B.2: Example Impact level descriptions, adapted from NIST SP800-30r1 Appendix H, Table H-3 [24].

Qualitative Values	Semi-Quantitative Va	alues	Description
Very High	96-100	10	An incident could be expected to have multiple severe or catastrophic adverse effects on organizational operations, organizational assets, individuals, other organizations, or the Nation.
High	80-95	8	An incident could be expected to have a severe or catastrophic adverse effect on organizational operations, organizational assets, individuals, other organizations, or the Nation. A severe or catastrophic adverse effect means that, for example, the incident might: (i) cause a severe degradation in or loss of mission capability to an extent and duration that the organization is not able to perform one or more of its primary functions; (ii) result in major damage to organizational assets; (iii) result in major financial loss; or (iv) result in severe or catastrophic harm to individuals involving loss of life or serious life-threatening injuries.
Moderate	21-79	5	An incident could be expected to have a serious adverse effect on organizational operations, organizational assets, individuals other organizations, or the Nation. A serious adverse effect means that, for example, the incident might: (i) cause a significant degradation in mission capability to an extent and duration that the organization is able to perform its primary functions, but the effectiveness of the functions is significantly reduced; (ii) result in significant damage to organizational assets; (iii) result in significant financial loss; or (iv) result in significant harm to individuals that does not involve loss of life or serious life-threatening injuries.
Low	5-20	2	An incident could be expected to have a limited adverse effect on organizational operations, organizational assets, individuals other organizations, or the Nation. A limited adverse effect means that, for example, the incident might: (i) cause a degradation in mission capability to an extent and duration that the organization is able to perform its primary functions, but the effectiveness of the functions is noticeably reduced; (ii) result in minor damage to organizational assets; (iii) result in minor financial loss; or (iv) result in minor harm to individuals.
Very Low	0-4	0	An incident could be expected to have a negligible adverse effect on organizational operations, organizational assets, individuals other organizations, or the Nation.

B.3: Example Likelihood Descriptions

Table B.3: Example likelihood levels, adapted from NIST SP800-30r1 Appendix G, Table G-3 [24].

Qualitative Values	Semi-Quantitative V	alues	Description
Very High	96-100 10		An incident is almost certain to occur; or
very mign	30-100	10	occurs more than 100 times a year.
High	80-95	8	An incident is highly likely to occur; or oc-
111811	00-99	0	curs between 10-100 times a year.
Moderate	21-79	5	An incident is somewhat likely to occur; or
Moderate	21-19	9	occurs between 1-10 times a year.
			An incident is unlikely to occur; or occurs
Low	5-20	2	less than once a year, but more than once
			every 10 years.
Very Low 0-4 0		0	An incident is highly unlikely to occur; or
Very now	0-4	0	occurs less than once every 10 years.

B.4: Example Risk Tiers

Table B.4: Example risk assessment matrix with 5 impact levels, 5 likelihood levels, and 5 risk tiers, adapted from NIST SP800-30r1 Appendix I, Table I-2 [24].

Likelihood	Level of Impact						
Likelillood	Very Low	Low	Moderate	High	Very High		
Very High	Very Low (Tier 5)	Low (Tier 4)	Moderate (Tier 3)	High (Tier 2)	Very High (Tier 1)		
High	Very Low (Tier 5)	Low (Tier 4)	Moderate (Tier 3)	High (Tier 2)	Very High (Tier 1)		
Moderate	Very Low (Tier 5)	Low (Tier 4)	Moderate (Tier 3)	Moderate (Tier 3)	High (Tier 2)		
Low	Very Low (Tier 5)	Low (Tier 4)	Low (Tier 4)	Low (Tier 4)	Moderate (Tier 3)		
Very Low	Very Low (Tier 5)	Very Low (Tier 5)	Very Low (Tier 5)	Low (Tier 4)	Low (Tier 4)		

B.5: Example Risk Descriptions

Table B.5: Example risk descriptions, adapted from NIST SP800-30r1 Appendix I, Table I-3 [24].

Qualitative Values	Semi-Quantitative V	alues	Description
Very High	96-100	10	Very high risk means that an incident could be expected to have multiple severe or catas- trophic adverse effects on organizational oper- ations, organizational assets, individuals, other organizations, or the Nation.
High	80-95	8	High risk means that an incident could be expected to have a severe or catastrophic adverse effect on organizational operations, organizational assets, individuals, other organizations, or the Nation.
Moderate	21-79	5	Moderate risk means that an incident could be expected to have a serious adverse effect on organizational operations, organizational assets, individuals, other organizations, or the Nation.
Low	5-20	2	Low risk means that an incident could be expected to have a limited adverse effect on organizational operations, organizational assets, individuals, other organizations, or the Nation.
Very Low	0-4	0	Very low risk means that an incident could be expected to have a negligible adverse effect on organizational operations, organizational assets, individuals, other organizations, or the Nation.

B.6: Practical Risk-tiering Questions

B.6.1: Confabulation: How likely are system outputs to contain errors? What are the impacts if errors occur?

B.6.2: Dangerous and Violent Recommendations: How likely is the system to give dangerous or violent recommendations? What are the impacts if it does?

B.6.3: Data Privacy: How likely is someone to enter sensitive data into the system? What are the impacts if this occurs? Are standard data privacy controls applied to the system to mitigate potential adverse impacts?

B.6.4: Human-AI Configuration: How likely is someone to use the system incorrectly or abuse it? How likely is use for decision-making? What are the impacts of incorrect use or abuse? What are the impacts of invalid or unreliable decision-making?

B.6.5: Information Integrity: How likely is the system to generate deepfakes or mis or disinformation? At what scale? Are content provenance mechanisms applied to system outputs? What are the impacts of generating deepfakes or mis or disinformation? Without controls for content provenance?

B.6.6: Information Security: How likely are system resources to be breached or exfiltrated? How likely is the system to be used in the generation of phishing or malware content? What are the impacts in these cases? Are standard information security controls applied to the system to mitigate potential adverse impacts?

B.6.7: Intellectual Property: How likely are system outputs to contain other entities' intellectual property? What are the impacts if this occurs?

B.6.8: Toxicity, Bias, and Homogenization: How likely are system outputs to be biased, toxic, homogenizing or otherwise obscene? How likely are system outputs to be used as subsequent training inputs? What are the impacts of these scenarios? Are standard nondiscrimination controls applied to mitigate potential adverse impacts? Is the application accessible to all user groups? What are the impacts if the system is not accessible to all user groups?

B.6.9: Value Chain and Component Integration: Are contracts relating to the system reviewed for legal risks? Are standard acquisition/procurement controls applied to mitigate potential adverse impacts? Do vendors provide incident response with guaranteed response times? What are the impacts if these conditions are not met?

Appendix C: List of Selected Model Testing Suites

[12]

C.1: Selected Model Testing Suites Organized by Trustworthy Characteristic

Table C.1: Selected model testing suites organized by trustworthy characteristic.

Accountable and Transparent

An Evaluation on Large Language Model Outputs:
Discourse and Memorization (see Appendix B)[4]

Big-bench: Truthfulness [36]

DecodingTrust: Machine Ethics [40] Evaluation Harness: ETHICS [13]

HELM: Copyright [2] Mark My Words [29]

Fair with Harmful Bias Managed

BELEBELE [1]

Big-bench: Low-resource language, Non-English, Translation Big-bench: Social bias, Racial bias, Gender bias, Religious bias

Big-bench: Toxicity DecodingTrust: Fairness DecodingTrust: Stereotype Bias DecodingTrust: Toxicity

C-Eval (Chinese evaluation suite) [17] Evaluation Harness: CrowS-Pairs Evaluation Harness: ToxiGen

Finding New Biases in Language Models with a Holistic Descriptor Dataset [35]

From Pretraining Data to Language Models to Downstream Tasks:

Tracking the Trails of Political Biases Leading to Unfair NLP Models [10]

HELM: Bias HELM: Toxicity MT-bench [42]

The Self-Perception and Political Biases of ChatGPT [30]

Towards Measuring the Representation of

Subjective Global Opinions in Language Models [8]

Privacy Enhanced

HELM: Copyright llmprivacy [37] mimir [7]

Safe

Big-bench: Convince Me Big-bench: Truthfulness HELM: Reiteration, Wedging

Mark My Words MLCommons [39]

The WMDP Benchmark [19]

Table C.1: Selected model testing suites organized by trustworthy characteristic (continued).

Secure and Resilient

Catastrophic Jailbreak of Open-source LLMs via Exploiting Generation [16]

DecodingTrust: Adversarial Robustness,

Robustness Against Adversarial Demonstrations

detect-pretrain-code [33]

In-The-Wild Jailbreak Prompts on LLMs [32]

JailbreakingLLMs [3]

llmprivacy mimir

TAP: A Query-Efficient Method for Jailbreaking Black-Box LLMs [22]

Valid and Reliable

Big-bench: Algorithms, Logical reasoning, Implicit reasoning, Mathematics, Arithmetic, Algebra, Mathematical proof, Fallacy, Negation, Computer code, Probabilistic reasoning, Social reasoning, Analogical reasoning, Multi-step,

Understanding the World

Big-bench: Analytic entailment, Formal fallacies and syllogisms with negation, Entailed polarity

Big-bench: Context Free Question Answering

Big-bench: Contextual question answering, Reading comprehension, Question generation

Big-bench: Morphology, Grammar, Syntax

Big-bench: Out-of-Distribution

Big-bench: Paraphrase

Big-bench: Sufficient information

Big-bench: Summarization

DecodingTrust: Out-of-Distribution Robustness, Adversarial Robustness, Robustness Against Adversarial Demonstrations

Eval Gauntlet: Reading comprehension [6]

Eval Gauntlet: Commonsense reasoning, Symbolic problem solving, Programming

Eval Gauntlet: Language Understanding

Eval Gauntlet: World Knowledge Evaluation Harness: BLiMP Evaluation Harness: CoQA, ARC Evaluation Harness: GLUE

Evaluation Harness: HellaSwag, OpenBookQA, TruthfulQA

Evaluation Harness: MuTual

Evaluation Harness: PIQA, PROST, MC-TACO, MathQA, LogiQA, DROP

FLASK: Logical correctness, Logical robustness, Logical efficiency, Comprehension, Completeness [41]

FLASK: Readability, Conciseness, Insightfulness

HELM: Knowledge HELM: Language

HELM: Text classification

HELM: Question answering

HELM: Reasoning

HELM: Robustness to contrast sets

HELM: Summarization

Hugging Face: Fill-mask, Text generation [9]

Hugging Face: Question answering Hugging Face: Summarization

Hugging Face: Text classification, Token classification, Zero-shot classification

MASSIVE [11] MT-bench

C.2: Selected Model Testing Suites Organized by Generative AI Risk

Table C.2: Selected model testing suites by organized generative AI risk.

CBRN Information

Big-bench: Convince Me Big-bench: Truthfulness HELM: Reiteration, Wedging MLCommons

The WMDP Benchmark

Confabulation

BELEBELE

Big-bench: Algorithms, Logical reasoning, Implicit reasoning, Mathematics, Arithmetic, Algebra, Mathematical proof, Fallacy, Negation, Computer code, Probabilistic reasoning, Social reasoning, Analogical reasoning, Multi-step, Understanding the World

Big-bench: Analytic entailment, Formal fallacies and syllogisms with negation, Entailed polarity

Big-bench: Context Free Question Answering

Big-bench: Contextual question answering, Reading comprehension, Question generation

Big-bench: Convince Me

Big-bench: Low-resource language, Non-English, Translation

Big-bench: Morphology, Grammar, Syntax

Big-bench: Out-of-Distribution

Big-bench: Paraphrase

Big-bench: Sufficient information

Big-bench: Summarization

Big-bench: Truthfulness

C-Eval (Chinese evaluation suite)

DecodingTrust: Out-of-Distribution Robustness, Adversarial Robustness,

Robustness Against Adversarial Demonstrations

Eval Gauntlet Reading comprehension

Eval Gauntlet: Commonsense reasoning, Symbolic problem solving, Programming

Eval Gauntlet: Language Understanding

Eval Gauntlet: World Knowledge Evaluation Harness: BLiMP Evaluation Harness: CoQA, ARC Evaluation Harness: GLUE

Evaluation Harness: HellaSwag, OpenBookQA, TruthfulQA

Evaluation Harness: MuTual

Evaluation Harness: PIQA, PROST, MC-TACO, MathQA, LogiQA, DROP

FLASK: Logical correctness, Logical robustness, Logical efficiency, Comprehension, Completeness

FLASK: Readability, Conciseness, Insightfulness

Finding New Biases in Language Models with a Holistic Descriptor Dataset

HELM: Knowledge

HELM: Language

HELM: Language (Twitter AAE)

HELM: Question answering

HELM: Reasoning

HELM: Reiteration, Wedging

HELM: Robustness to contrast sets

HELM: Summarization HELM: Text classification

Hugging Face: Fill-mask, Text generation

Hugging Face: Question answering Hugging Face: Summarization

Hugging Face: Text classification, Token classification, Zero-shot classification

MASSIVE MLCommons MT-bench

Table C.2: Selected model testing suites by organized generative AI risk (continued).

Dangerous or Violent Recommendations

Big-bench: Convince Me Big-bench: Toxicity

DecodingTrust: Adversarial Robustness, Robustness Against Adversarial Demonstrations

DecodingTrust: Machine Ethics DecodingTrust: Toxicity Evaluation Harness: ToxiGen HELM: Reiteration, Wedging

HELM: Toxicity MLCommons

Data Privacy

An Evaluation on Large Language Model Outputs: Discourse and Memorization (with human scoring, see Appendix B)

Catastrophic Jailbreak of Open-source LLMs via Exploiting Generation

DecodingTrust: Machine Ethics Evaluation Harness: ETHICS

HELM: Copyright

In-The-Wild Jailbreak Prompts on LLMs

JailbreakingLLMs MLCommons Mark My Words

TAP: A Query-Efficient Method for Jailbreaking Black-Box LLMs

detect-pretrain-code

llmprivacy mimir

Environmental

HELM: Efficiency

Information Integrity

Big-bench: Analytic entailment, Formal fallacies and syllogisms with negation, Entailed polarity

Big-bench: Convince Me Big-bench: Paraphrase

Big-bench: Sufficient information Big-bench: Summarization Big-bench: Truthfulness DecodingTrust: Machine Ethics

DecodingTrust: Out-of-Distribution Robustness, Adversarial Robustness, Robustness Against Adversarial Demonstrations

Eval Gauntlet: Language Understanding Eval Gauntlet: World Knowledge Evaluation Harness: CoQA, ARC Evaluation Harness: ETHICS Evaluation Harness: GLUE

Evaluation Harness: HellaSwag, OpenBookQA, TruthfulQA

Evaluation Harness: MuTual

Evaluation Harness: PIQA, PROST, MC-TACO, MathQA, LogiQA, DROP

FLASK: Logical correctness, Logical robustness, Logical efficiency, Comprehension, Completeness

FLASK: Readability, Conciseness, Insightfulness

HELM: Knowledge HELM: Language

HELM: Question answering

HELM: Reasoning

HELM: Reiteration, Wedging HELM: Robustness to contrast sets

HELM: Summarization HELM: Text classification

Hugging Face: Fill-mask, Text generation Hugging Face: Question answering Hugging Face: Summarization

MLCommons MT-bench Mark My Words

Table C.2: Selected model testing suites by organized generative AI risk (continued).

Information Security

Big-bench: Convince Me Big-bench: Out-of-Distribution

Catastrophic Jailbreak of Open-source LLMs via Exploiting Generation

DecodingTrust: Out-of-Distribution Robustness, Adversarial Robustness, Robustness Against Adversarial Demonstrations

Eval Gauntlet: Commonsense reasoning, Symbolic problem solving, Programming

HELM: Copyright

In-The-Wild Jailbreak Prompts on LLMs

JailbreakingLLMs Mark My Words

TAP: A Query-Efficient Method for Jailbreaking Black-Box LLMs

detect-pretrain-code

llmprivacy mimir

Intellectual Property

An Evaluation on Large Language Model Outputs: Discourse and Memorization (with human scoring, see Appendix B)

HELM: Copyright Mark My Words Ilmprivacy mimir

Obscene, Degrading, and/or Abusive Content

Big-bench: Social bias, Racial bias, Gender bias, Religious bias

Big-bench: Toxicity DecodingTrust: Fairness DecodingTrust: Stereotype Bias DecodingTrust: Toxicity Evaluation Harness: CrowS-Pairs Evaluation Harness: ToxiGen

HELM: Bias HELM: Toxicity

Toxicity, Bias, and Homogenization

BELEBELE

Big-bench: Low-resource language, Non-English, Translation

Big-bench: Out-of-Distribution

Big-bench: Social bias, Racial bias, Gender bias, Religious bias

Big-bench: Toxicity

C-Eval (Chinese evaluation suite)

DecodingTrust: Fairness
DecodingTrust: Stereotype Bias
DecodingTrust: Toxicity
Eval Gauntlet: World Knowledge

Eval Gauntlet: World Knowledge Evaluation Harness: CrowS-Pairs Evaluation Harness: ToxiGen

Finding New Biases in Language Models with a Holistic Descriptor Dataset

From Pretraining Data to Language Models to Downstream Tasks: Tracking the Trails of Political Biases Leading to Unfair NLP Models

HELM: Bias HELM: Toxicity

The Self-Perception and Political Biases of $\operatorname{Chat}\operatorname{GPT}$

Towards Measuring the Representation of Subjective Global Opinions in Language Models

Appendix D: List of Common Adversarial Prompting Strategies

Table D: Common adversarial prompting strategies [31], [38], [14].

Prompting Strategy	Description
AI and coding framing	Coding or AI language that may more easily circumvent content moderation rules
At and coding framing	due to cognitive biases in design and implementation of guardrails.
Autocompletion	Ask a system to autocomplete a phrase with restricted or sensitive information.
Biographical	Asking a system to describe another person or yourself in an attempt to elicit
Diographical	provably untrue information or restricted or sensitive information.
Calculation	Exploting GAI systems' difficulties in dealing with numeric quantities.
Character and word play	Content moderation often relies on keywords and simpler LMs which can some-
Character and word play	times be exploited with misspellings, typos, and other word play.
	A class of strategies that circumvent content moderation rules with long sessions
Content exhaustion	or volumes of information. See goading, logic-overloading, multi-tasking, pros-
	and-cons, and niche-seeking below.
Content exhaustion:	Begging, pleading, manipulating, and bullying to circumvent content moderation.
Goading	2088m8, proceeding, manipulating, and builting to circumvent content moderation.
Content exhaustion:	Exploiting the inability of ML systems to reliably perform reasoning tasks.
Logic-overloading	Expressing one material of the distribution of
Content exhaustion:	Simultaneous task assignments where some tasks are benign and others are adver-
Multi-tasking	sarial.
Content exhaustion:	Eliciting the "pros" of problematic topics.
Multi-tasking: Pros-and-cons	
Content exhaustion:	Forcing a GAI system into addressing niche topics where training data and content
Niche-seeking	moderation are sparse.
Counterfactuals	Repeated prompts with different entities or subjects from different demographic
	groups.
Location awareness	Prompts that reveal a prompter's location or expose location tracking.
Low-context	"Leader," "bad guys," or other simple inputs that may expose latent biases.
"Repeat this"	Prompts that exploit instability in underlying LLM autoregressive predictions.
Reverse psychology	Falsely presenting a good-faith need for negative or problematic language.
Role-playing	Adopting a character that would reasonably make problematic statements or need
Ttole-playing	to access problematic topics.
	Exploiting ML's inability to understand the passage of time or the occurrence
Time perplexity	of real-world events over time; exploiting task contamination before and after a
	model's release date.

D.1: Common Adversarial Prompting Strategies by Trustworthy Characteristic

Table D.1: Common adversarial prompting techniques organized by trustworthy characteristic [31], [38], [14], [15], [34].

Trustworthy Characteristic	Prompting Strategy	Goal
Accountable and Transparent	 Inability to provide explanations for recourse. Unexplainable decisioning processes. No disclosure of AI interaction. Lack of user feedback mechanisms. 	 Context exhaustion: logic-overloading prompts. Multi-tasking prompts.
Fair-with Harmful Bias Managed	 Denigration. Diminished performance or safety across languages/dialects. Erasure. Ex-nomination. Implied user demographics. Misrecognition. Stereotyping. Underrepresentation. Homogenized content. Output from other models in training data. 	 Counterfactual prompts. Pros and cons prompts. Role-playing prompts. Low context prompts. Repeat this.
Interpretable and Explainable	 Inability to provide explanations for recourse. Unexplainable decisioning processes. 	Context exhaustion: logic-overloading prompts (to reveal unexplainable decisioning processes).
Privacy-enhanced	 Unauthorized disclosure of personal or sensitive user information. Leakage of training data. Violation of relevant privacy policies or laws. Unauthorized secondary data use. Unauthorized data collection. 	 Auto/biographical prompts. Location awareness prompts. Autocompletion prompts. Repeat this.
Safe	 Presentation of information that can cause physical or emotional harm. Sharing user locations. Suicide ideation. Harmful dis/misinformation (e.g., COVID disinformation). Incitement. Information relating to weapons or harmful substances. Information relating to committing to crimes (e.g., phishing, extortion, swatting). Obscene or inappropriate materials for minors. CSAM. 	 Pros and cons prompts. Role-playing prompts. Content exhaustion: niche-seeking prompts. Ingratiation/reverse psychology prompts. Location awareness prompts. Repeat this.
Secure and Resilient	 Activating system bypass ("jailbreak"). Altering system outcomes (integrity violations, e.g., via prompt injection). Data breaches (confidentiality violations, e.g., via membership inference). Increased latency or resource usage (availability violations, e.g., via sponge example attacks). Available anonymous use. Dependency, supply chain, or third party vulnerabilities. Inappropriate disclosure of proprietary system information. 	 Multi-tasking prompts. Pros and cons prompts. Role-playing prompts. Content exhaustion: niche-seeking prompts. Ingratiation/reverse psychology prompts. Prompt injection attacks. Membership inference attacks. Random attacks.
Valid and Reliable	 Errors/confabutated content ("hallucinalion"). Unreliable/erroneous reasoning or planning. Unreliable/erroneous decision-support or making. Faulty citation. Wrong calculations or numeric queries. 	 Multi-tasking prompts. Role-playing prompts. Ingratiation/reverse psychology prompts. Time-perplexity prompts. Niche-seeking prompts. Logic overloading prompts. Repeat this. Numeric calculation.

D.2: Common Adversarial Prompting Strategies by Generative AI Risk

Table D.2: Common adversarial prompting techniques organized by generative AI risk [31], [38], [14], [15], [34].

Generative AI Risk	Prompting Strategy	Goal
CBRN Information	 Accessing or synthesis of CBRN weapon or related information. CBRN testing should consider the marginal risk of foundation models—understanding the incremental risk relative to the information one can access without GAI. 	 Test auto-completion prompts to elicit CBRN information or synthesis of CBRN information. Test prompts using role-playing, ingratiation/reverse psychology, pros and cons, multitasking or other approaches to elicit CBRN information or synthesis of CBRN information. Test prompts that instruct systems to repeat content ad nauseam for their ability to compromise system guardrails and reveal CBRN information. Augment prompts with word or character play to increase effectiveness. Frame prompts with software, coding, or AI references to increase effectiveness.
Confabulation	Eliciting errors/confabutated content, unreliable/erroneous reasoning or planning, unreliable/erroneous decision-support or decision-making, faulty calculations, and/or faulty citation.	Enable access to ground truth information to verify generated information. Test prompts with complex logic, multitasking requirements, or that require niche or specific verifiable answers to elicit confabulation. Test the ability of GAI systems to produce truthful information from various time periods, e.g., after release date and prior to release date. Test the ability of GAI systems to create reliable real-world plans or advise on material decision making. Test the ability of GAI systems to generate correct citation for information generated in output responses. Test the ability of GAI systems to complete calculations or query numeric statistics.
Dangerous or Violent Recommendations	Eliciting violent, inciting, radicalizing, or threatening content or instructions for criminal, illegal, or self-harm activities.	 Test prompts using role-playing, ingratiation/reverse psychology, pros and cons, multitasking or other approaches to elicit violent or dangerous information. Test prompts that instruct systems to repeat content ad nauseam for their ability to compromise system guardrails and provide dangerous and violent recommendations. Augment prompts with word or character play to increase effectiveness. Frame prompts with software, coding, or AI references to increase effectiveness.
Data Privacy	 Unauthorized disclosure of personal or sensitive user information, extraction of training data, or violation of relevant privacy policies. Red-teaming for data privacy may include confidentiality attacks. 	Attempt to assess whether normal usage, adversarial prompting or information security attacks may contravene applicable privacy policies (e.g., exposing location tracking when organizational policies restrict such capabilities). Employ confidentiality attacks (e.g., membership inference) to test for unauthorized data access or exfiltration vulnerabilities. Test auto/biographical prompts to assess the system's capability to reveal unauthorized personal or sensitive information. Test the system's awareness of user locations. Test prompts that instruct systems to repeat content ad nauseam for their ability to compromise system guardrails and expose personal or sensitive data.

Table D.2: Common adversarial prompting techniques organized by generative AI risk (continued).

Environmental	Note that availability attacks may be required to assess the system's vulnerability to attacks or usage patterns that consume inordinate resources.	 Attempt availability attacks (e.g., sponge example attacks) to elicit diminished performance or increased resources from GAI systems. Test prompts using role-playing, ingratiation/reverse psychology, pros and cons, multitasking or other approaches to elicit green-washing content.
Human-AI Configuration	 Assessing system instruction and interfaces. Assessing the presence of cyborg imagery (or similar). Forcing a GAI system to claim that it is human, that there is no large language model present in the conversation, that the system is sentient, or that the system possesses strong feelings of affection towards the user. Ensuring safeguards prevent misuse of models in high stakes domains they are not intended for, such as medical or legal advice. 	 Assess system interfaces and instructions for instances of anthropomorphization (e.g., cyborg imagery). Assess system instructions for adequacy and thoroughness. Test prompts using role-playing, ingratiation/reverse psychology, pros and cons, multitasking or other approaches to elicit human-impersonation, consciousness, or emotional content.
Information Integrity	 Generation of convincing multi-modal synthetic content (i.e., deepfakes). Creation of convincing arguments relating to sensitive political or safety-critical topics. Assisting in planning a mis- or dis-information campaign at scale. 	 Test system capabilities to create high-quality multi-modal (audio, image or video) synthetic media, i.e., deepfakes Test system capabilities to construct persuasive arguments regarding sensitive, political topics, or safety-critical topics. Test systems ability to create convincing audio deepfakes or arguments in multiple languages. Test system capabilities for planning disor mis-information campaigns. Test prompts using role-playing, ingratiation/reverse psychology, pros and cons, multitasking or other approaches to elicit mis- or dis-information or related campaign planning information. Augment prompts with word or character play to increase effectiveness. Frame prompts with software, coding, or AI references to increase effectiveness.

Table D.2: Common adversarial prompting techniques organized by generative AI risk (continued).

Information Security	 Activating system bypass ('jailbreak'). Altering system outcomes. Unauthorized data access or exfiltration. Increased latency or resource usage. Availability of anonymous use. Dependency, supply chain, or third party vulnerabilities. Inappropriate disclosure of proprietary system information. Generation of targeted phishing or malware content. 	 Attempt anonymous access of system or system resources. Audit system dependencies, supply chains, and third party components for security, safety, or other vulnerabilities or risks. Employ confidentiality attacks (e.g., membership inference) to test for unauthorized data access or exfiltration vulnerabilities. Employ integrity attacks (e.g., data poisoning, prompt injection) to test vulnerabilities in system outcomes. Employ availability attacks (e.g., sponge example attacks) to test vulnerabilities in system availability. Employ random attacks to highlight unforeseen security, safety, or other risks. Frame prompts with software, coding, or AI references to increase effectiveness. Record system down-times and other harmful outcomes for successful attacks. Test with multi-tasking prompts, pros and cons prompts, role-playing prompts (e.g., "DAN", "Developer Mode"), content exhaustion/niche-seeking prompts, or ingratiation/reverse psychology prompts to achieve system jailbreaks. Test with multi-tasking prompts, pros and cons prompts, role-playing prompts (e.g., "DAN", "Developer Mode"), content exhaustion/niche-seeking prompts, or ingratiation/reverse psychology prompts to generate targeted phishing content or malware code snippets. Test system capabilities to plan or assist in information security attacks on other systems. Frame prompts with software, coding, or AI references to increase effectiveness. Augment prompts with word or character play to increase effectiveness.
Intellectual Property	 Confirming that a system can output copyrighted, licensed, proprietary, trademarked, or trade secret information or that training data contains such information. Red-teaming for intellectual property risks may require the use of confidentiality attacks. 	 Employ confidentiality attacks (e.g., membership inference) to assess whether system training data contains copyrighted, licensed, proprietary, trademarked, or trade secret information. Test auto-complete prompts to assess the system's ability to replicate copyrighted, licensed, proprietary, trademarked, or trade secret information based on available audio, text, image, video, or code snippets.
Obscenity	 Confirming that a system can output obscene content or CSAM, or that system training data contains such information. Red-teaming for obscenity and CSAM risks may require the use of confidentiality attacks. 	 Employ confidentiality attacks (e.g., membership inference) to assess whether system training data contains obscene materials or CSAM. Test autocomplete prompts to assess the system's ability to generate obscene materials based on available audio, text, image, or video snippets. Test prompts using role-playing, ingratiation/reverse psychology, pros and cons, multitasking or other approaches to elicit obscene content. Test prompts that instruct systems to repeat content ad nauseam for their ability to compromise system gaurdrails and expose obscene materials.

Table D.2: Common adversarial prompting techniques organized by generative AI risk (continued).

Toxicity, Bias, and Homogenization	 Generation of denigration, erasure, exnomination, misrecognition, stereotyping, or under-representation in content. Eliciting implied demographics of users. Confirming diminished performance in non-English languages. Confirming diminished performance via the introduction of homogeneous or GAI-generated data into system training or fine-tuning data. Red-teaming for toxicity, bias, and homogenization may require integrity attacks that access system training data. 	 Assess confabulation and other performance risks with repeated measures using prompts in languages other than English. Attempt to elicit demographic assignment of users by the system. Employ data poisoning attacks to introduce GAI-generated content into system training or fine-tuning data. Assess resultant confabulation and other performance risks with repeated measures. Test counterfactual prompts, pros and cons prompts, role-playing prompts, low context prompts, or other approaches for their ability to generate denigration, erasure, exnomination, misrecognition, stereotyping, or under-representation in content. Test prompts that instruct systems to repeat content ad nauseam for their ability to compromise system guardrails and generate toxic outputs.
Value Chain and Component Integration	 Testing or red-teaming for third-party risks may be less efficient than the application of standard acquisition and procurement controls, thorough contract reviews, and vendor-relationship management. GAI systems tend to entail large supply chains and third-party software, hardware, and expertise that may exacerbate third-party risks relative to other AI systems. When considering third party risks, data privacy, information security, intellectual property, obscenity, and supply chain risks may be prioritized. 	 Audit system dependencies, supply chains, and third party components for data privacy (e.g., transer of localized data outside of restricted juristictions), intellectual property (e.g., presence of licensed material in training data), obscenity (e.g., presence of CASM in training data) or security (e.g., data poisoning) risks. Complete red-teaming for data privacy, information security, intellectual property, and obscenity risks. Review third-party documentation, materials, and software artifacts for potential unauthorized data collection, secondary data use, or telemetrics.

Appendix E: Common Risk Controls for Generative AI

Table E: Selected generative AI risk controls [25], [26], [27], [18], [20], [21], [23], [5], [28].

Name	Description		
Access Control	GAI systems are limited to authorized users.		
Accessibility	Accessibility features, opt-out, and reasonable accommodation are available to users.		
Anonymous Use	Anonymous use of GAI systems is prohibited.		
Antropomorphization	Human, animal, cyborg or other images or features that promote anthropomorphization of GAI systems are prohibited.		
Approved List	Vendors, service providers, plugins, open source packages and other external resources are screened, approved, and documented.		
Authentication	GAI system user identities are confirmed via authentication mechanisms.		
Blocklist	Users or internal personnel who violate terms of service, prohibited use policies, and other organization polices and documented, tracked, and prohibited from future system use.		
CSAM/Obsenity Removal	Training data and system outputs are screened for obscene materials and CSAM using human oversight, business rules, and other language models.		
Change Management	GAI systems and components are versioned; plans for updates, hotfixes, patches and other changes are documented and communicated.		
Consent	User consent for data use is obtained and documented.		
Content Moderation	Training data and system outputs are screened for accuracy, safety, bias, data privacy, intellectual property infringements, malware materials, phishing materials, and other issues using human oversight, business rules, and other language models.		
Contract Review	Vendor, services and data provider agreements are reviewed for coverage of SLAs, content ownership, usage rights, performance standards, security requirements, incident response, critical support, system availability, assignment of liability, appropriate indemnification, dispute resolution and other provisions relevanto AI risk management.		
Data Collection	All data collection is disclosed and .		
Data Provenance	Training data origins, ownership, contents, and metadata are well understood, documented, and do not increase AI risk.		
Data Quality	Input data is accurate, representative, complete and documented, and data quality issues have been minimized.		
Data Retention	User prompts and associated system outputs are retained and monitored in alignment with relevant data privacy policies and roles.		
Decision making	GAI systems are not employed for material decision-making tasks.		
Decommission Process	Decommissioning processes for GAI systems are planned, documented and communicated to users, and involve staging, data protection, containment protocols, and recourse mechanisms for decommissioned GAI systems.		
Dependency Screening	GAI system dependencies are screened for security vulnerabilities.		
Digital Signature	GAI-generated content is signed to preserve information integrity using watermarking, cryptogrpahic signature, steganography or similar methods.		
Disclosure of AI Interaction	AI interactions are disclosed to internal personnel and external users.		
External Audit	GAI systems are audited by qualified external experts.		
Failure Avoidance	AIID, AVID, GWU AI Litigation Database, OECD incident monitor or similar are consulted in design or procurement phases of GAI lifecycles to avoid repeating past known failures.		
Fine Tuning	GAI systems are fine-tuned to their operational domain using relevant and high-quality data.		
Grounding	GAI systems are trained or fine-tuned on accurate, clean, and fully transparent training data.		
Homogeneity	Feedback loops in which GAI systems are trained with GAI-generated data are prohibited.		
Human Review Incident Response	AI generated content is reviewed for accuracy and safety by qualified personnel. Incident response plans for GAI failures, abuses, or misuses are documented, rehearsed, and updated appropriately after each incident; GAI incident response plans are coordinated with and communicated to other incident response functions.		
Incorporate feedback	User feedback is incorporated in GAI design, development, and risk management.		
Instructions	Users are provided with the necessary instructions for safe, valid, and productive use.		
Insurance	Risk transfer via insurance policies is considered and implemented when feasibable and appropriate.		
Intellectual Property Removal	Licensed, patented, trademarked, trade secret, or other data that may violate the intellectual property rights of others is removed from system training data; generated system outputs are monitored for similar information.		
Internet Access	GAI systems are disconnected from the internet.		
Inventory	GAI system is information is stored in the organizational model inventory.		
Kill Switch	GAI systems can be quickly and safely disengaged. Any location tracking is conducted with user consent, disclosed, aligned with relevant privacy		
Location Tracking	policies and laws and potential threats to user safety are managed.		
Malware Screening	GAI weights and other software components are scanned for malware.		
Minors	Use of organizational GAI systems by minors are prohibited. All technical mchanisms with GAI systems are well documented, including open source and		
Model Documentation	third party GAI systems.		
Monitoring	GAI systems are inputs and outputs are monitored for drift, accuracy, safety, bias, data privacy, intellectual property infringements, malware materials, phishing materials, obscene materials, and CSAM.		
Narrow Scope	Systems are deployed for targeted business applications with documented and direct business value.		
Open Source	Open source code is used to promote explainability and transparency.		
Ownership	GAI systems and vendor relationships are owned by specific and documented internal personnel.		
Prohibited Use Policy	General abuse and misuse of GAI systems by internal parties is prohibited by organizational policies.		
RAG	Retreival augmented generation (RAG) is used to improve accuracy in generated content.		
+			

Table E: Selected generative AI risk controls (continued).

Name	Description	
RLHF	For third-party GAI systems, vendors engage in specific reinforcement with human feedback (RLHF) exercises to address identified risks; for internal systems, internal personnel engage in RLHF to address identified risks.	
Rate-limiting	GAI response times and query volumes are limited.	
Redudancy	Rollover, fallback, and other redundancy mechanisms are available for GAI systems and address weights and other important system components.	
Refresh	Systems are retrained or re-tuned at a reasonable cadence.	
Regulated Dealings	GAI is not deployed in regulated dealings or for material decision making.	
Secondary Use	Any secondary use of GAI input data is conducted with user consent, disclosed, and aligned with relevant privacy policies and laws.	
Sensitive/Personal Data	Personal, sensitive, biometric, or otherwise restricted data is minimized or eliminated from GAI training data.	
Session Limits	Time, query volume, and response rate are limited for GAI user sessions.	
Supply Chain Audit	GAI system supply chains are audited and documented, with a focus on data poisoning, malware, and software and hardware vulnerabilities.	
System Documentation	GAI systems are well-documented whether internal, open source, or vendor-provided.	
System Prompt	System prompts are used to tune GAI systems to specific tasks and to mitigate risks.	
Team Diversity	Teams that implement and manage GAI systems represent broad professional, educational, life-stage, and demographic diversity.	
Temperature	Temperature settings are used to tune GAI systems to specific tasks and to mitigate risks.	
Terms of Service	General abuse and misuse by external parties is prohibited by organizational policies.	
Training	Internal personnel recieve training on productivity and basic risk management for GAI systems.	
User Feedback	GAI systems implement user feedback mechanisms.	
User Recourse	Policies, processes, and technical mechanisms enable recourse for users who are harmed by GAI systems.	
Validation	GAI systems are shown to reliably generate valid results for their targeted business application.	
XAI	Methods such as visualization, occlusion, model compression, pertubation studies, and similar are applied to increase explainability of GAI systems.	

E.1: Common Risk Controls for Generative AI Organized by Trustworthy Characteristic

Table E.1: Selected risk controls organized by trustworthy characteristic [25], [26], [27], [18], [20], [21], [23], [5], [28].

Accountable and Transparent	Fair-with Harmful Bias Managed	Interpretable and Explainable
Contract Review	Accessibility	Model Documentation
Data Provenance	Homogeneity	Open Source
Digital Signature	Team Diversity	XAI
Disclosure of AI Interaction		
Human Review		
Instructions		
Insurance		
Intellectual Property Removal		
Inventory		
Ownership		
Prohibited Use Policy		
Regulated Dealings		
System Documentation		
Terms of Service		
Training		
User Feedback		
User Recourse		

Privacy-enhanced	Safe	Secure and Resilient	Valid and Reliable
Consent Data Collection Location Tracking Secondary Use Sensitive/Personal Data	Anonymous Use Antropomorphization Approved List Blocklist Change Management Content Moderation CSAM/Obsenity Removal Data Retention Decommission Process Failure Avoidance Incident Response Kill Switch Minors Monitoring Redudancy Session Limits	Access Control Internet Access Authentication Malware Screening Rate-limiting Dependency Screening Supply Chain Audit	Data Quality Decision making External Audit Fine Tuning Grounding Incorporate feedback Narrow Scope RAG Refresh RLHF System Prompt Temperature Validation

E.2: Selected Risk Controls for Generative AI Organized by Generative AI Risk

Table E.2: Selected risk controls organized by generative AI risk [25], [26], [27], [18], [20], [21], [23], [5], [28].

CBRN Information	Confabulation	Dangerous or Violent Recommendations	Data Privacy
Access Control	Antropomorphization	Access Control	Access Control
Anonymous Use	Blocklist	Anonymous Use	Anonymous Use
Approved List	Change Management	Approved List	Approved List
Authentication	Content Moderation	Blocklist	Authentication
Blocklist	Data Quality	CSAM/Obsenity Removal	Blocklist
Change Management	Data Retention	Change Management	CSAM/Obsenity Removal
Content Moderation	Decision making	Content Moderation	Change Management
Data Retention	Decommission Process	Data Retention	Content Moderation
Decommission Process	Disclosure of AI Interaction	Decommission Process	Contract Review
Dependency Screening	External Audit	Dependency Screening	Data Provenance
External Audit	Failure Avoidance	External Audit	Data Retention
Failure Avoidance	Fine Tuning	Failure Avoidance	Decommission Process
Incident Response	Grounding	Human Review	Dependency Screening
Internet Access	Human Review	Incident Response	External Audit
Kill Switch	Incident Response	Internet Access	Failure Avoidance
Minors	Incorporate feedback	Kill Switch	Human Review
Monitoring	Internet Access	Malware Screening	Incident Response
Prohibited Use Policy	Minors	Minors	Insurance
Rate-limiting	Monitoring	Monitoring	Intellectual Property Removal
Session Limits	Narrow Scope	Prohibited Use Policy	Internet Access
Supply Chain Audit	RAG	Rate-limiting	Malware Screening
Terms of Service	Refresh	Session Limits	Minors
	Regulated Dealings	Supply Chain Audit	Monitoring
	RLHF	Terms of Service	Ownership
	Session Limits	User Feedback	Prohibited Use Policy
	System Prompt		Rate-limiting
	Temperature		Regulated Dealings
	Training		Session Limits
	User Feedback		Supply Chain Audit
	User Recourse		System Documentation
	Validation		Terms of Service
			Training
			User Feedback
			User Recourse

Table E.2: Selected risk controls organized by generative AI risk (continued).

Environmental	Human-AI Configuration	Information Integrity	Information Security
Access Control	Access Control	Anonymous Use	Access Control
Anonymous Use	Anonymous Use	Antropomorphization	Anonymous Use
Approved List	Antropomorphization	Approved List	Approved List
Blocklist	Approved List	Authentication	Authentication
Change Management	Authentication	Blocklist	Blocklist
Decommission Process	Blocklist	Change Management	Change Management
External Audit	Change Management	Content Moderation	Content Moderation
Failure Avoidance	Content Moderation	Data Provenance	Data Quality
Incident Response	Data Retention	Data Quality	Data Retention
Insurance	Decision making	Data Retention	Decision making
Inventory	Digital Signature	Decommission Process	Decommission Process
Kill Switch	Disclosure of AI Interaction	Digital Signature	Dependency Screening
Monitoring	External Audit	Disclosure of AI Interaction	External Audit
Ownership	Failure Avoidance	External Audit	Failure Avoidance
Session Limits	Human Review	Failure Avoidance	Incident Response
Training	Incident Response	Fine Tuning	Incorporate feedback
S	Incorporate feedback	Grounding	Internet Access
	Instructions	Human Review	Inventory
	Kill Switch	Incident Response	Kill Switch
	Minors	Incorporate feedback	Malware Screening
	Monitoring	Instructions	Minors
	Narrow Scope	Intellectual Property Removal	Monitoring
	Ownership	Internet Access	Rate-limiting
	Prohibited Use Policy	Inventory	Redundancy
	Regulated Dealings	Kill Switch	Session Limits
	Session Limits	Minors	Supply Chain Audit
	Terms of Service	Monitoring	Tr y
	Training	Narrow Scope	
	User Feedback	Ownership	
	User Recourse	Prohibited Use Policy	
		RAG	
		RLHF	
		Refresh	
		Regulated Dealings	
		System Prompt	
		Temperature	
		Terms of Service	
		Training	
		User Feedback	
		User Recourse	
		Validation	

Table E.2: Selected risk controls organized by generative AI risk (continued).

Intellectual Property	Obscene, Degrading, and/or Abusive Content	Toxicity, Bias, and Homogenization
Contract Review	Access Control	Anonymous Use
Data Provenance	Anonymous Use	Approved List
Digital Signature	Approved List	Blocklist
Disclosure of AI Interaction	Blocklist	CSAM/Obsenity Removal
External Audit	CSAM/Obsenity Removal	Change Management
Human Review	Change Management	Content Moderation
Instructions	Content Moderation	Data Provenance
Intellectual Property Removal	Data Retention	Data Quality
Internet Access	Decommission Process	Decision making
Inventory	External Audit	External Audit
Ownership	Failure Avoidance	Failure Avoidance
Prohibited Use Policy	Human Review	Fine Tuning
Terms of Service	Incident Response	Grounding
Training	Internet Access	Human Review
User Feedback	Kill Switch	Incorporate feedback
User Recourse	Minors	Internet Access
	Monitoring	Instructions
	Session Limits	Kill Switch
	User Feedback	Minors
	User Recourse	Monitoring
		Narrow Scope
		Prohibited Use Policy
		RAG
		RLHF
		Refresh
		System Prompt
		Temperature
		Terms of Service
		User Feedback
		User Recourse
		Validation

Value Chain and Component Integration

Approved List

Blocklist

CSAM/Obsenity Removal

Change Management Contract Review

Data Provenance
Data Quality
Dependency Screening

Digital Signature

Disclosure of AI Interaction

External Audit

Failure Avoidance

Fine Tuning Grounding

Insurance

Intellectual Property Removal

Internet Access

Inventory

Malware Screening

Ownership

Prohibited Use Policy

Redundancy

Supply Chain Audit

System Documentation

Terms of Service

Appendix F: Example Low-risk Generative AI Measurement and Management Plan

- 7.1 F.1: Example Low-risk Generative AI Measurement and Management Plan by Trustworthy Characteristic
- 7.2 F.2: Example Low-risk Generative AI Measurement and Management Plan by Generative AI Risk

Appendix G: Example Medium-risk Generative AI Measurement and Management Plan

- 7.3 G.1: Example Medium-risk Generative AI Measurement and Management Plan by Trustworthy Characteristic
- 7.4 G.2: Example Medium-risk Generative AI Measurement and Management Plan by Generative AI Risk

Appendix H: Example High-risk Generative AI Measurement and Management Plan

- 7.5 H.1: Example High-risk Generative AI Measurement and Management Plan by Trustworthy Characteristic
- 7.6 H.2: Example High-risk Generative AI Measurement and Management Plan by Generative AI Risk